CLAIMS

1. A thermoplastic elastomer composition comprising:

40 to 99 parts by mass of an ethylene/α-olefin copolymeric rubber (A1), and

1 to 60 parts by mass of a thermoplastic α-olefin resin (B) comprising a α-olefinic crystalline thermoplastic resin (B1) and/or a α-olefinic amorphous thermoplastic resin (B2), provided that a total amount of (A1) and (B) is 100 parts by mass; and

0.1 to 10 parts by mass of an unmodified organopolysiloxane (C),

0.1 to 10 parts by mass of a viny-terminated organopolysiloxane (D), and

0 to 400 parts by mass of a mineral oil softener (E1), to 100 parts by mass of a mixture of (A1) and (B).

2. A thermoplastic elastomer composition according to Claim 1, wherein at least the ethylene/α-olefin copolymeric rubber (A1) and the thermoplastic α-olefin resin (B) are subjected to a dynamic heat treatment under the presence of a crosslinking agent.

3. A thermoplastic elastomer composition according to Claim 1 or 2, wherein the ethylene/α-olefin copolymeric rubber (A1) has a critical viscosity [η] of 3.5 to 6.8 dl/g when it is measured at 135°C in a decalin solvent.

4. A thermoplastic elastomer composition comprising:

40 to 99 parts by mass of an extended rubber (X) comprising 20 to 80% by mass of an ethylene/α-olefin copolymeric rubber (A2) and 20 to 80% by mass of a mineral oil softener (E2), provided that total of (A2) + (E2) is 100% by mass; and

1 to 60 parts by mass of a thermoplastic α-olefin resin (B) comprising a α-olefinic crystalline thermoplastic resin (B1) and/or a α-olefinic amorphous thermoplastic resin (B2),

Provided that total of a mixture of (X) and (B) is 100 parts by mass; and

0.1 to 10 parts by mass of an unmodified organopolysiloxane (C),

0.1 to 10 parts by mass of a viny-terminated organopolysiloxane (D), and

0 to 300 parts by mass of a mineral oil softener (E1), to 100 parts by mass of the mixture of (X) and (B).

5. A thermoplastic elastomer composition according to Claim 4, wherein at least the extended rubber (X) and the thermoplastic α-olefin resin (B) are subjected to a dynamic heat treatment under the presence of a crosslinking agent.

6. A thermoplastic elastomer composition according to Claim 4 or 5, wherein the ethylene/α-olefin copolymeric rubber (A2) has a critical viscosity [η] of 3.5 to 6.8 dl/g when it is measured at 135°C in a decalin solvent.

7. A thermoplastic elastomer composition according to any one of Claims 1 to 6, wherein the unmodified organopolysiloxane (C) has a viscosity of below 100,000 cSt when it is measured at 25°C based on JIS K2283.

8. A thermoplastic elastomer composition according to any one of Claims 1 to 7, wherein the viny-terminated organopolysiloxane (D) is an organopolysiloxane having a polymerization degree of 500 to 10,000 and represented by the following average composition formula (1):

$R_aSiO_{(4-a)/2}$

where R represents a substituted or unsubstituted mono-valent organic group, 0.02 to 10 mol% of R is a vinyl group, and a is a number within the range from 1.900 to 2.004.

9. A molded article produced by subjecting a thermoplastic elastomer composition according to any one of Claims 1 to 8 to injection molding.

10. A weather strip produced by subjecting a thermoplastic elastomer composition according to any one of Claims 1 to 8 to injection molding.